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TM 11-2336

WAR DEPARTMENT TECHNICAL MANUAL

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SCREENS

PH-555/GF AND

PH-556/GF

WAR DEPARTMENT • JANUARY 1946

SCREENS

PH-555/GF AND PH-556/GF



WAR DEPARTMENT • JANUARY 1946

United States Government Printing Office

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TM 11-2336, Screens PH-555/GF and PH-556/GF, is published for the information and guidance of all concerned.

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DESTRUCTION NOTICE

WHY —To prevent the enemy from using or salvaging this equipment for his benefit.

WHEN—When ordered by your commander.

HOW —1. Smash—Use sledges, axes, handaxes, pickaxes, hammers, crowbars, heavy tools.

2. Cut—Use axes, handaxes, machetes.

3. Burn—Use gasoline, kerosene, oil, flame throwers, incendiary grenades.

4. Explosives—Use firearms, grenades, TNT.

5. Disposal—Bury in slit trenches, fox holes, other holes. Throw in streams. Scatter.

USE ANYTHING IMMEDIATELY AVAILABLE FOR DESTRUCTION OF THIS EQUIPMENT

WHAT—1. Smash—Frame, carrying case, springs, and hooks.

2. Cut—Ropes and screen cloth.

3. Burn—Ropes, screen cloth, carrying case, and this manual.

4. Bend—Frame sections.

5. Bury or scatter—All that remains.

DESTROY EVERYTHING

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Accepted
of 5/1/51

CONTENTS

	<i>Paragraph</i>	<i>Page</i>
PART ONE. Introduction.		
<i>Section I.</i> Description of Screens PH-555/GF and PH-556/GF.		
General	1	1
Component parts	2	2
Detailed description	3	2
 PART TWO. Operating Instructions.		
<i>Section II.</i> Installation and assembly.		
Unpacking and setting up	4	4
<i>III.</i> Dismantling.		
Taking down and repacking	5	7
 PART THREE. Maintenance instructions.		
<i>Section IV.</i> Preventive maintenance techniques.		
Meaning of preventive maintenance	6	9
Description of preventive maintenance techniques	7	9
Preventive maintenance	8	9
<i>V.</i> Lubrication.		
<i>VI.</i> Moistureproofing and fungiproofing.		
 PART FOUR. Auxiliary equipment.		
 PART FIVE. Repair instructions.		
<i>Section VII.</i> Repair.		
Replacement of parts	9	12
Unsatisfactory equipment report	10	15
 APPENDIX. Maintenance parts.....		17

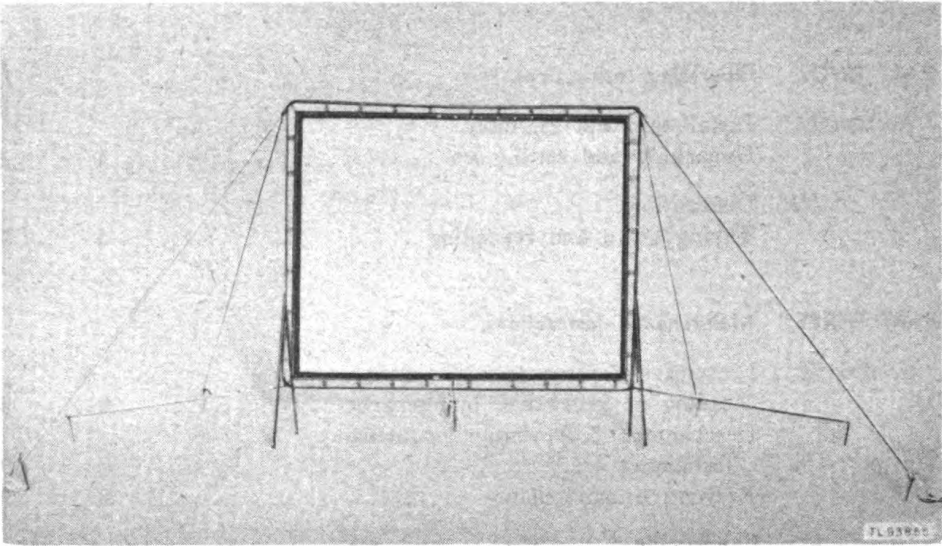


Figure 1. Screen PH-555/GF set up for operation.

PART ONE

INTRODUCTION

Section I

DESCRIPTION OF SCREENS PH-555/GF AND PH-556/GF

I. General (fig. 1)

Screen PH-555/GF is a large, portable, folding, projection screen designed especially for large audience projection outdoors and under field conditions. Stakes and guy ropes make this screen usable even under moderately windy conditions. The screen is adjustable in height and may be set up by two operators in 15 minutes or less. A ground area of approximately 18 by 22 feet is required for the placement of stakes and guy ropes. The screen is made of water-repellent cloth and is suspended by coil springs from the sectional tubular metal frame. Screen PH-555/GF has a screen area of 7 feet 6 inches by 9 feet 11 inches and an effective picture area of 7 feet 1 inch by 9 feet 5 inches. When erected in its lowest position, the frame is 9 feet 5 inches high and 10 feet 6 inches wide. In this position, the bottom of the frame is 1 foot 4 inches from the ground. When erected in its highest position, the frame is 13 feet 7 inches high and 10 feet 6 inches wide. In this position, the bottom of the frame is 5 feet 6 inches from the ground. The entire screen is packed in a plywood case 48 inches long, 8 inches wide, and 13 inches high, occupying 1.7 cubic feet and weighing 75 pounds when fully packed.

Note: Screen PH-556/GF is similar in construction to Screen PH-555/GF with the following exceptions: Screen PH-556/GF is larger to provide an effective picture area 10 feet 6 inches by 14 feet, and is packed in two fiber packing cases. The procedure for erecting and dismantling Screen PH-556/GF is the same as that followed by Screen PH-555/GF.

Part replacement procedure is the same for both screens.

2. Component Parts (fig. 3)

The following parts are packed disassembled in the case:

- One projection screen.
- Two side frame assemblies.
- Two horizontal frame assemblies.
- One center frame assembly.
- Eight guy rope stakes.
- Four leg extension sections.
- Four telescoping extension legs.
- Three guy ropes with snap hooks, 10 feet long.
- Five guy ropes with snap hooks, 22 feet long.
- Eight guy stakes.

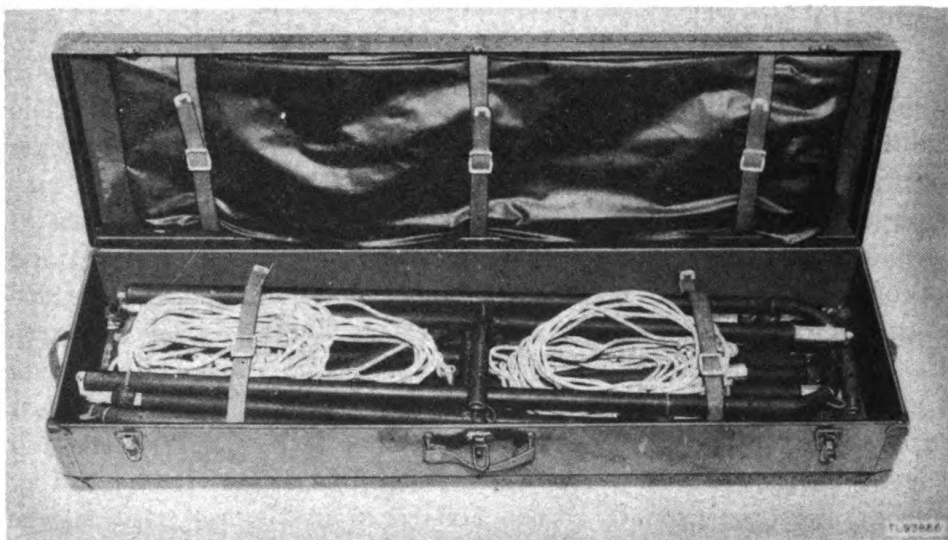


Figure 2. Carrying case showing Screen PH-555/GF packed.

3. Detailed Description (figs. 3 and 6)

Screen PH-555/GF is composed of three basic assemblies: the frame assembly, the cloth screen, and the carrying case.

a. **FRAME ASSEMBLY.** The frame assembly is composed of five units, each consisting of several tubular sections which are hinged together. The tubular sections are made of rigid, lightweight, corrosion-resistant metal and, when fitted together, are held rigidly in place by means of interlock springs. When erected, the frame is braced by means of eight guy ropes fastened to metal stakes driven into the ground, each rope being fitted with a snap hook for attachment to rings on the frame. When all the guy ropes are installed, the screen is stable even under windy conditions. Forty coil springs with attached hooks engage the grommets in the border of the screen and hold the screen taut inside the frame.

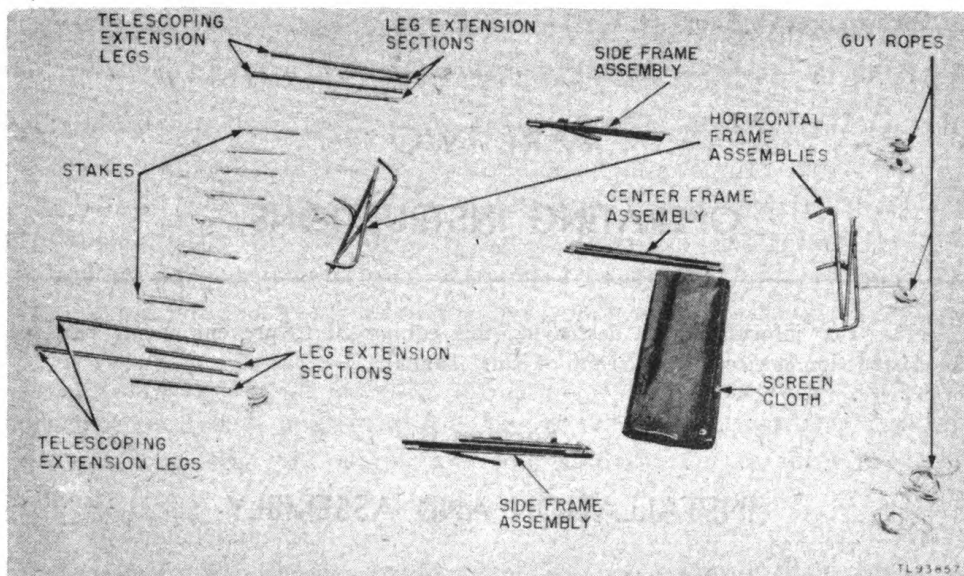


Figure 3. Component parts of Screen PH-555/GF laid out before setting up.

b. SCREEN. The screen is made of a semimatte white reflecting material with a black border in which are the metal mounting grommets. The rear side of the screen is black. The screen material can be folded compactly during transportation and will withstand several hundred complete folding and unfolding operations over a considerable temperature range without surface cracking. The cloth screen may be stored at temperatures as high as 185° F. and as low as minus 40° F.

c. SCREEN CASE (fig. 2). The plywood carrying case is painted olive drab. The folded cloth screen is strapped in the lid of the case. The frame sections, guy ropes, and stakes are stowed in the bottom of the case. The case is 47 inches long, 9¾ inches wide, and 6½ inches high, and is equipped with carrying handles at each end and on the top.

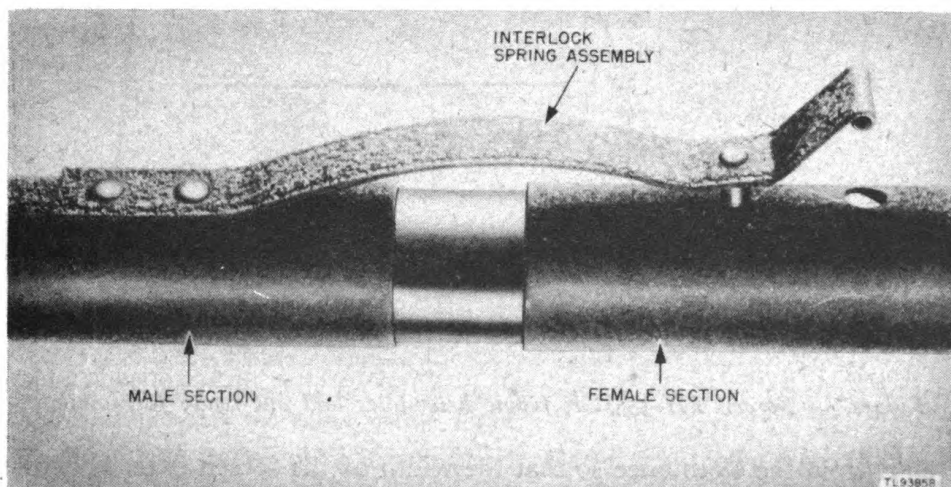


Figure 4. Male and female frame sections partially joined.

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PART TWO

OPERATING INSTRUCTIONS

Note: For information on destroying this equipment to prevent enemy use, see the destruction notice at the front of this manual.

Section II

INSTALLATION AND ASSEMBLY

4. Unpacking and Setting Up

Select a site large enough to accommodate the screen and supporting guy ropes and proceed to unpack and set up the equipment as follows:

- a. Remove all the parts from the case and lay them out. (See fig. 3.)
- b. Unfold the hinged sections and lock them. (See fig. 4.) When the hinged sections are extended and locked, lay them out on the ground. (See fig. 5.)
- c. Join the five sections together to form a frame. (See fig. 6.)

Note: Do not install the leg section or the leg extensions at this time.

- d. Lay the folded screen cloth inside and near the top of the frame.

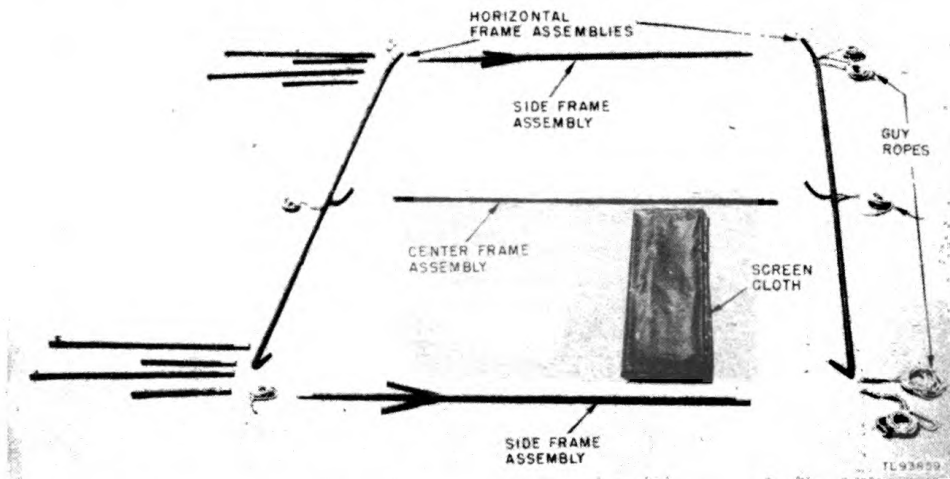


Figure 5. Screen PH-555/GF frame assemblies laid out ready for joining.

- e. Unfold the cloth once so that the width of the screen extends across the width of the frame.

f. Hook the coil spring hooks, on the top of the frame, into the grommets which are located in the top border of the screen cloth. (See fig. 7.)

Caution: Be sure that the edge of the screen marked TOP is connected to the top of the frame.

g. Unfold the screen entirely and connect the spring hooks in the grommets all the way around the edge of the cloth, being sure that the springs are so spaced as to remove ripples from the cloth. (See fig. 8.)

h. Connect the snap hooks of the guy ropes to the rings on the frame as follows:

(1) Connect two of the long guy ropes to the ring at the top left corner of the frame, and two to the ring at the top right corner. Connect the remaining long guy rope to the ring in the center of the top of the frame.

(2) Connect one short guy rope to each bottom frame corner, and the third short rope to the ring in the center of the bottom of the frame.

i. Install the four leg extension sections and the four telescoping extension legs. (See fig. 9.)

Note: If the screen is not going to be raised to its maximum height it is not necessary to install the four leg extension sections.

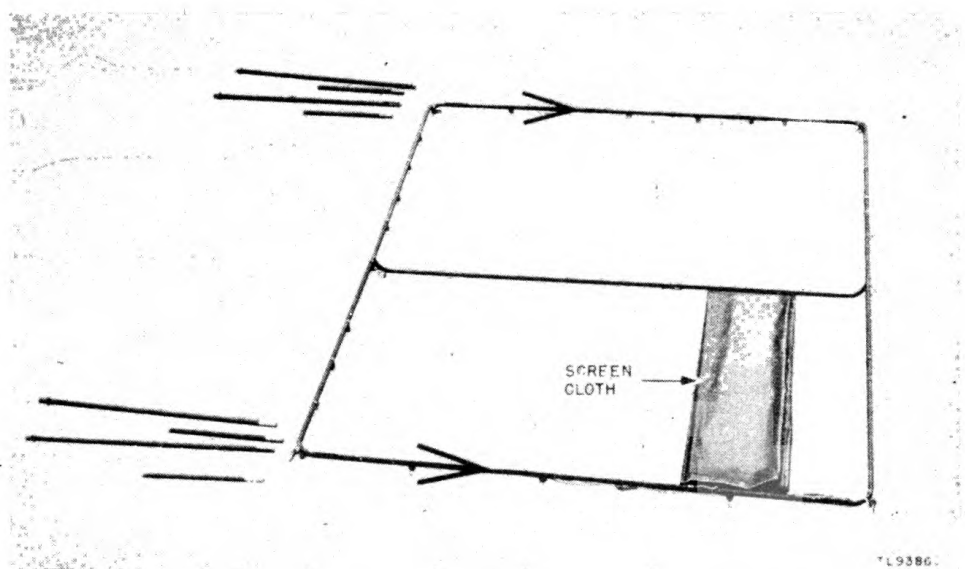


Figure 6. Screen PH-555/GF—frame assemblies joined and guy ropes attached.

j. Raise the screen by having a man at each end walk the screen into a vertical position.

Note: If the screen is being raised against a wind, it may be necessary to have a third man support the center of the frame.

k. Shift the screen until it is properly placed for viewing by the audience. Adjust the height of the screen so that the bottom edge of the viewing surface clears the heads of the audience.

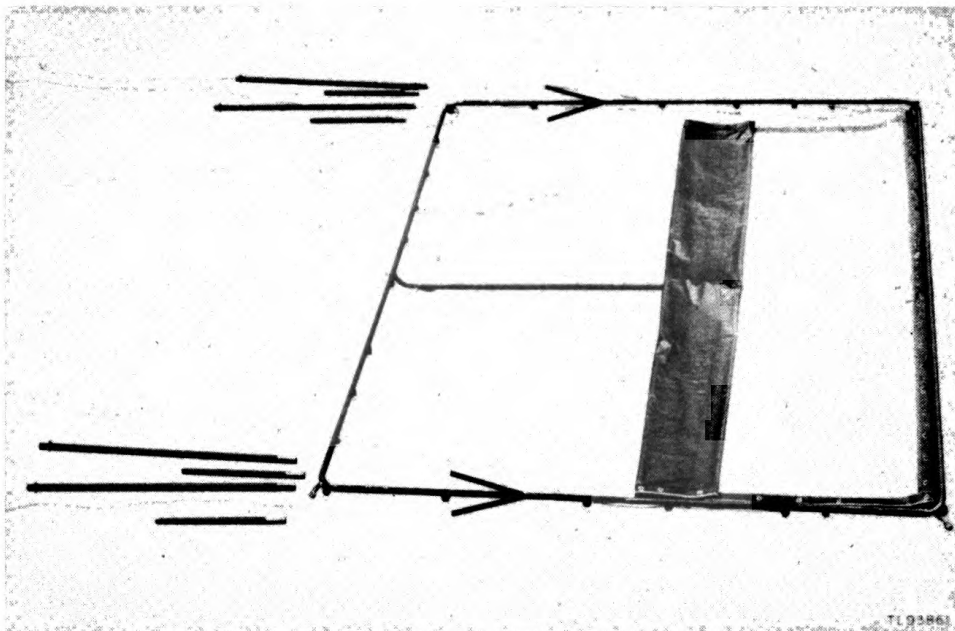


Figure 7. Screen PH-555/GF—screen cloth partially connected to frame.

l. Compensate for inequalities of the ground level by adjusting the telescoping extension legs so that the screen is level and the four legs are resting on the ground.

Note: If it is windy, it may be necessary to have men hold the guy ropes at the front and the rear of the screen while the legs are being adjusted.

m. Install the stakes (figs. 1 and 11), driving the stakes at an angle to prevent the guy ropes from pulling them out of the ground.

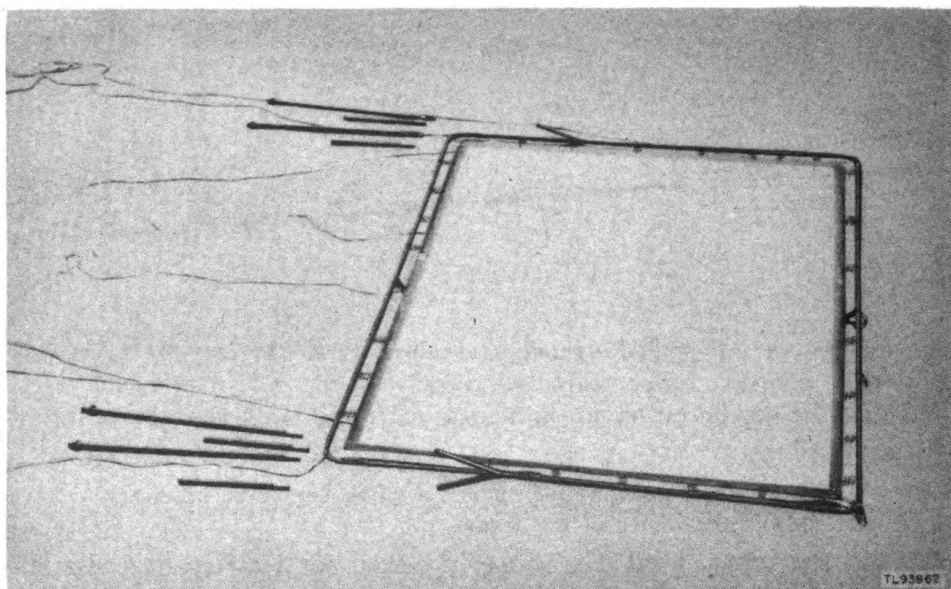


Figure 8. Screen PH-555/GF—screen cloth in place inside frame.

n. Tie the ropes to the stakes, equalizing the tension so that the screen is kept perpendicular to the ground and facing the audience squarely.

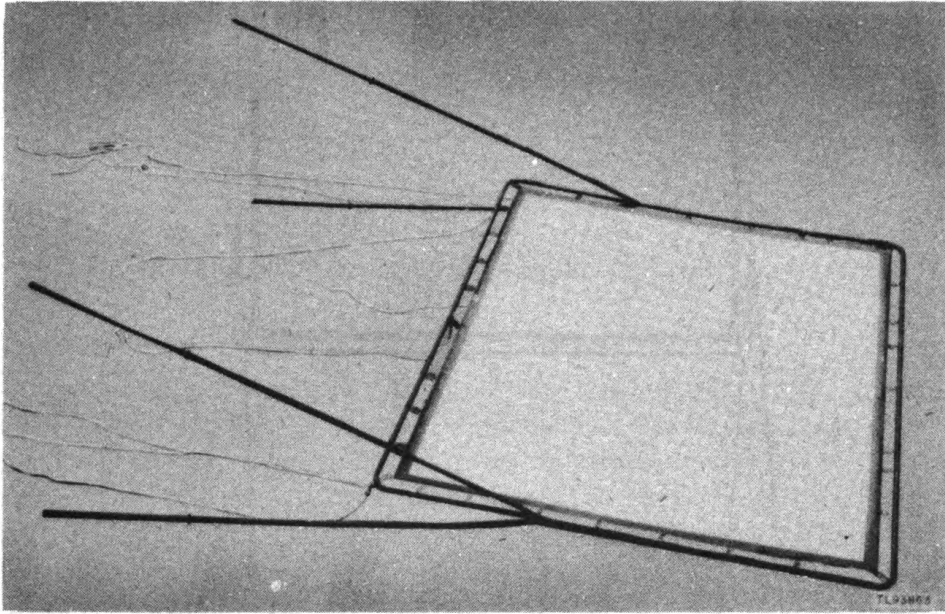


Figure 9. Screen PH-555/GF—leg extension sections and telescoping extension legs jointed to frame.

Section III

DISMANTLING

5. Taking Down and Repacking

To take down and repack the screen, reverse the unpacking and setting up procedure. (See par. 4.) The screen cloth is folded as follows: Disconnect the spring hooks from the edges of the screen. Start at the bottom and fold the screen over toward the top in 8-inch folds. When the screen is folded to a size approximately 8 inches wide by 9 feet 11 inches long, fold it across in three folds to fit it into the lid of the carrying case. When all the parts are in the case, fasten the retaining straps.

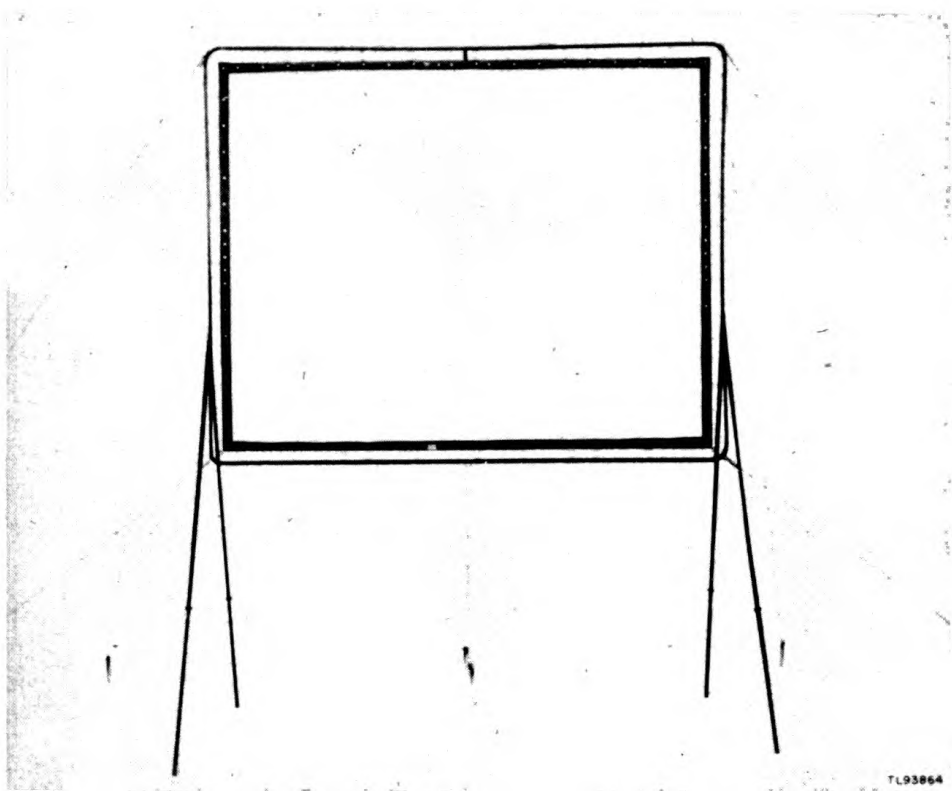


Figure 10. Screen PH-555/GF erected in highest position.

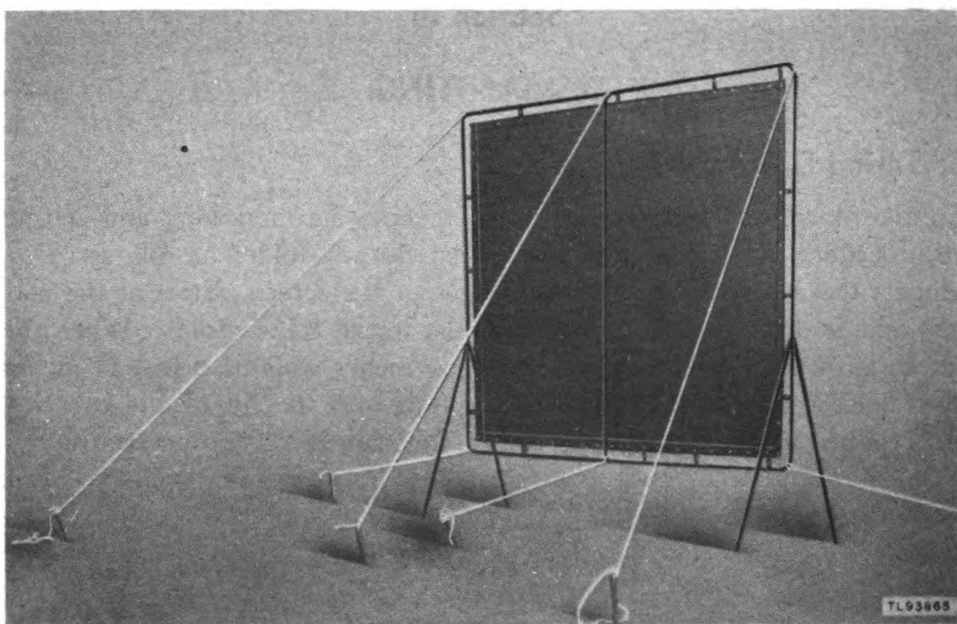


Figure 11. Rear view of Screen PH-555/GF showing placement of guy ropes.

PART THREE

MAINTENANCE INSTRUCTIONS

Section IV

PREVENTIVE MAINTENANCE TECHNIQUES

6. Meaning of Preventive Maintenance

Preventive maintenance may be defined as a systematic series of operations performed periodically on equipment in order to maintain top efficiency in performance, to minimize unwanted interruptions in service, and to eliminate major break-downs. To appreciate the meaning of the term *preventive maintenance*, it is necessary to distinguish between preventive maintenance and trouble shooting and repair. In sharp contrast, the primary function of trouble shooting and repair is to locate and correct existing defects. The importance of preventive maintenance cannot be overemphasized. The usefulness of an entire photographic system depends upon each piece of photographic equipment in the system being ready to operate at peak efficiency when needed. Consequently, it is vitally important that operators and repairmen of photographic equipment maintain their equipment properly.

7. Description of Preventive Maintenance Techniques

Most of the parts of this photographic equipment require routine preventive maintenance which differs in amount and kind required. Because maintenance techniques cannot be applied indiscriminately, definite and specific instructions are needed. This section contains specific instructions and serves as a guide for personnel who perform the basic maintenance operations. The selection of operations is based on a general knowledge of field requirements. Field use without continuous inspection and continuous performance of necessary cleaning and adjustment will result in most equipment becoming operationally erratic, undependable, and subject to break-down when it is most needed.

8. Preventive Maintenance

a. FRAME. Before repacking the frame, clean out any dirt, sand, or gravel which may have become lodged inside the tubes. Wipe the frame to remove moisture. When dry, go over the frame with a cloth lightly dampened with oil, lubricating, preservative special (PS). Place a few drops of the oil on the hinges

b. **CLOTH SCREEN.** Dry the screen before folding it if it is wet, making sure that no sand or gravel is clinging to the rear surface of the cloth. The screen should be allowed to remain erected until dry if time permits. If the screen has been wet with salt water, remove any salt deposits by wiping it with a cloth dampened with fresh water. If it is impossible because of lack of time or weather conditions to dry the screen before repacking, it should be removed from the case and dried at the first opportunity.

Caution: Do not allow the white surface of the screen to rest on the ground.

c. **STAKES.** Wipe the stakes free of clinging earth or sand before packing them into the carrying case. It is advisable to go over the surfaces of the stakes with a cloth dampened with oil, lubricating, preservative special (PS) before stowing them in the case.

d. **GUY ROPES.** The guy ropes should be coiled neatly before being stowed in the case. When wet, they should be allowed to dry if time permits. If they must be packed immediately, it is advisable that they be wiped with a dry cloth to remove as much moisture as possible.

Section V

LUBRICATION

No lubrication will be necessary for Screens PH-555/GF and PH-556/GF.

Section VI

MOISTUREPROOFING AND FUNGIPROOFING

Note: Protection against moisture and fungus growth has been provided for during manufacture. No further treatment will be required during the life of the equipment.

PART FOUR
AUXILIARY EQUIPMENT

(Not used.)

PART FIVE

REPAIR INSTRUCTIONS

Note: Failure or unsatisfactory performance of equipment used by Army Ground Forces and Army Service Forces will be reported on WD AGO Form 468 (War Department Unsatisfactory Equipment Report); by Army Air Forces, on AAF Form 54 (Unsatisfactory Report).

Section VII

REPAIR

9. Replacement of Parts

a. REPLACING INTERLOCK SPRING ASSEMBLY (fig. 12). The interlock spring assemblies are riveted to the female sections of the tubular frame and are designed to hold two sections together. The spring assembly is replaced as follows:

(1) Cut off, or punch out the two spring retaining rivets and remove the defective spring.

(2) Place the new spring assembly on the frame so that the two holes in the spring line up with the holes in the frame.

(3) Insert a 3/16-inch rivet through the wall of the frame and through the spring by working through the two large holes in the frame which are directly opposite the rivet holes. The head of the rivet will be inside the tube.

(4) Insert a bucking bar through the large hole in the frame and position the bar firmly against the head of the rivet. Flare the tubular end of the rivet over the spring on the outside of the frame with a flaring tool or a ball-peen hammer.

(5) Proceed to install the second rivet as described above.

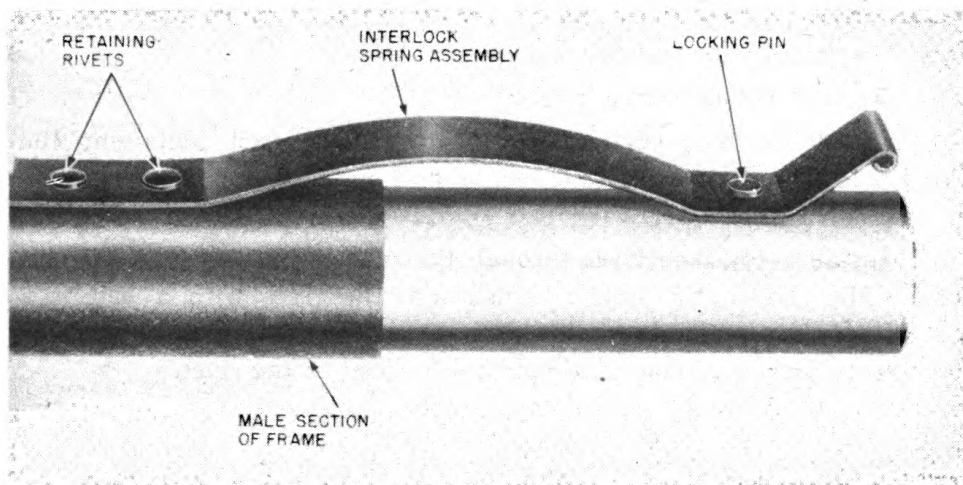


Figure 12. Detailed view of interlock spring assembly.

b. REPLACING HINGES (fig. 13). The hinges are located between tubular sections of the frame and are used to hold two mating sections together while they are folded for packing. To replace a hinge, proceed as follows:

(1) Cut off or punch out the $1\frac{1}{8}$ -inch rivet that retains the hinge inside the female section of the tubular frame.

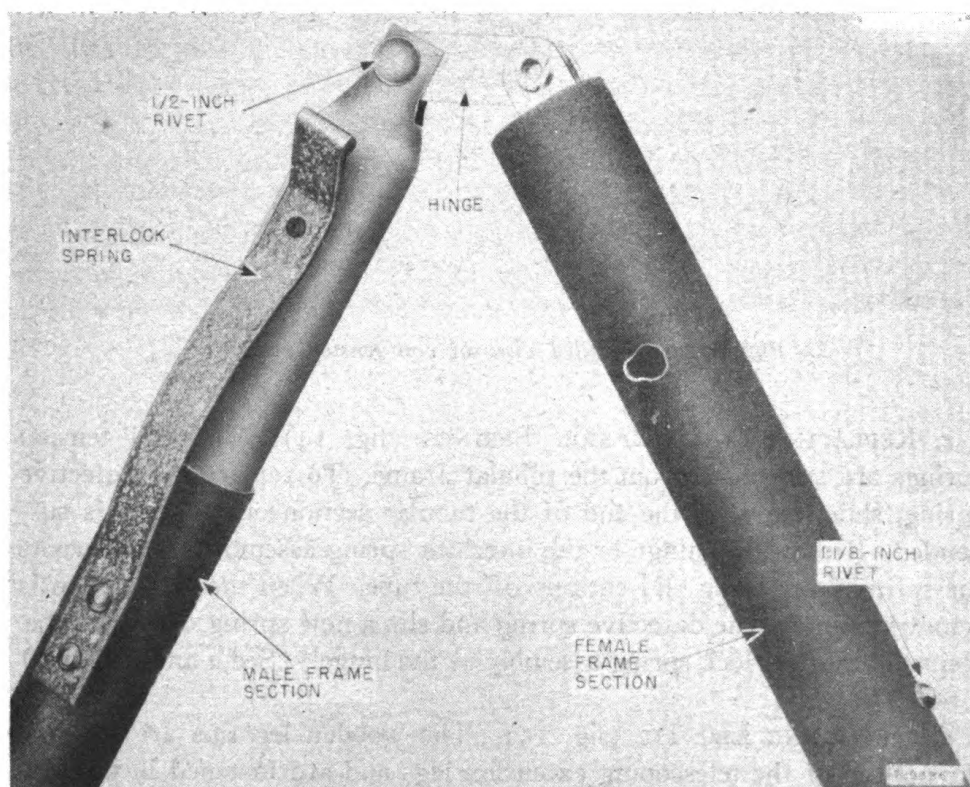


Figure 13. Detailed view of hinge.

(2) Cut off or punch out the $\frac{1}{2}$ -inch rivet that fastens the hinge to the male section of the tubular frame.

(3) Remove the defective hinge.

(4) Install the long portion of the hinge (that part containing the slotted hole) into the female tube section and line up the slot in the hinge with the hole in the tube.

(5) Install a $\frac{1}{8}$ -inch rivet through the tube so that the rivet passes through the slot in the hinge. Mushroom the rivet with a ball-peen hammer. Do this by holding a bucking bar or iron block at least twice as heavy as the hammer being used against the head of the rivet.

(6) Install a $\frac{1}{2}$ -inch rivet through the hole in the short end of the hinge and through the hole in the extension coming out of the male tubular section. Flare the tubular end of the rivet while holding a bucking bar or hammer against the head.

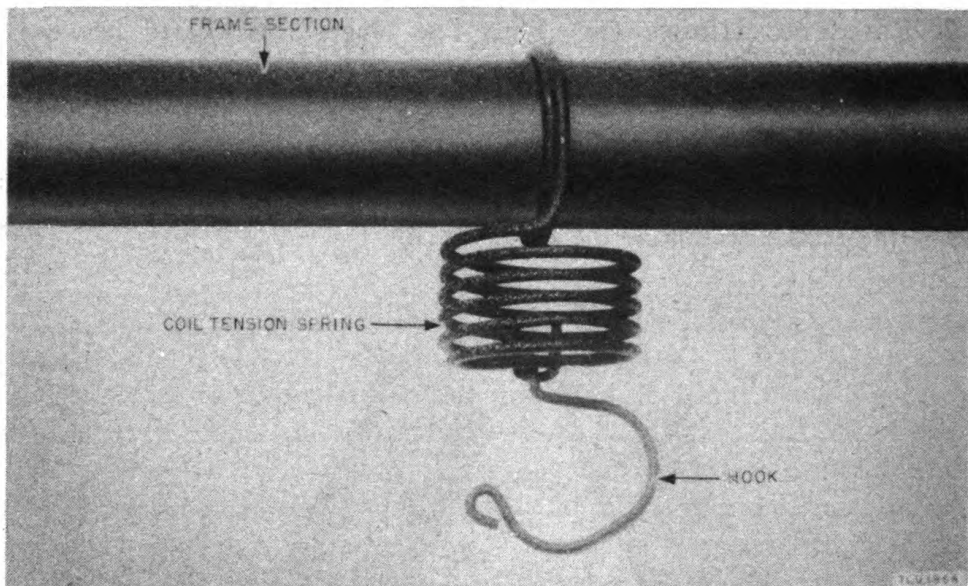


Figure 14. Detailed view of coil tension spring.

c. REPLACING COIL TENSION SPRINGS (fig. 14). The coil tension springs are suspended from the tubular frame. To replace the defective spring, slide it toward the end of the tubular section on which it is suspended. Remove the hinge or the interlock spring assembly that prevents the spring from being slid entirely off the tube. When the obstruction is removed, remove the defective spring and slip a new spring over the tube. Reinstall the interlock spring assembly or the hinge. (See *a* and *b* above.)

d. REPLACING LEG TIP (fig. 15). The wooden leg tips are set into the bottom of the telescoping extension legs and are fastened in position by a rivet which passes through the tube and the tip. To replace a leg

tip, cut off or punch out the rivet and remove the defective tip. Install a new tip and run a drill through the rivet holes in the tube to drill a hole through the tip. When the hole is drilled, install a rivet through the tube and through the tip, and mushroom the rivet with a ball-peen hammer while holding a bucking bar or other iron tool against the rivet head.

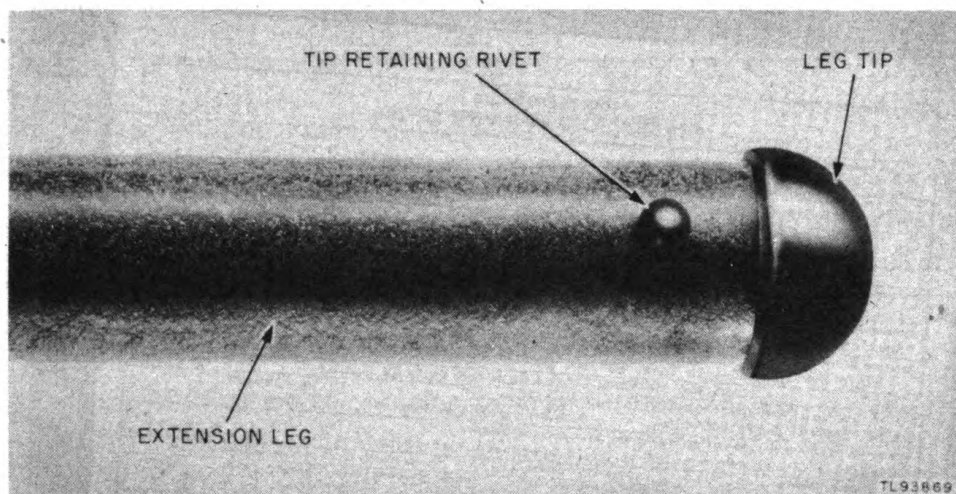


Figure 15. Detailed view of leg tip.

10. Unsatisfactory Equipment Report

a. When trouble in equipment used by Army Ground Forces or Army Service Forces occurs more often than repair personnel feel is normal, WD AGO Form 468 (War Department Unsatisfactory Equipment Report) should be filled out and forwarded through channels to the Office of the Chief Signal Officer, Washington 25, D. C.

b. When trouble in equipment used by Army Air Forces occurs more often than repair personnel feel is normal, AAF Form 54 (Unsatisfactory Report) should be filled out and forwarded through channels.

WAR DEPARTMENT UNSATISFACTORY EQUIPMENT REPORT					
FOR	TECHNICAL SERVICE Signal Corps	MATERIEL	DATE 1 Feb 45		
FROM	ORGANIZATION 175 Signal Repair Co	STATION APO 102			
TO	NEXT SUPERIOR HEADQUARTERS Supply Sec, Hq Fourth Army Sig Sv	STATION APO 110	TECHNICAL SERVICE Signal Corps		
COMPLETE MAJOR ITEM					
NOMENCLATURE Radio Transmitter BC-123-A		TYPE Ground, vehicular	MODEL A		
MANUFACTURER American Radio Corp		U. S. A. REG. NO. Order No. 1234-Phila-45	SERIAL NO. 12345	DATE RECEIVED 5 Jan 45	
EQUIPMENT WITH WHICH USED (if applicable) Radio Set SCR-456-A in Tank, Medium, M4					
DEFECTIVE COMPONENT—DESCRIPTION AND CAUSE OF TROUBLE					
PART NO. Sig C Stk No. 3B47-2	TYPE Capacitor C20; fixed; 1-mf; 500 vdcw	MANUFACTURER American Radio Corp		DATE INSTALLED When manufactured	
DESCRIPTION OF FAILURE AND PROBABLE CAUSE (If additional space is required, see back of form) Capacitor C20 shorts out due to humid operating conditions					
DATE OF INITIAL TROUBLE 15 Jan 45	TOTAL TIME INSTALLED		TOTAL PERIOD OF OPERATION BEFORE FAILURE		
	YEARS	MONTHS	DAYS	YEARS	MONTHS
	—	—	—	0	0
				5	
				HOURS	MILES
				—	—
BRIEF DESCRIPTION OF UNUSUAL SERVICE CONDITIONS AND ANY REMEDIAL ACTION TAKEN Operation in tropics; heavy rainfall. Was replaced and set given moistureproofing and fungiproofing treatment, 20 Jan 45.					
TRAINING OR SKILL OF USING PERSONNEL		RECOMMENDATIONS (If additional space is required, see back of form)			
POOR	FAIR	GOOD	Substitute capacitor designed for tropical operation		
		X			
TYPED NAME, GRADE, AND ORGANIZATION E. A. Wilson, 1st Lt, Sig C 175 Signal Repair Co			SIGNATURE <i>E. A. Wilson</i>		
FIRST ENDORSEMENT					
TO CHIEF	TECHNICAL SERVICE	OFFICE			
NAME, GRADE, AND STATION		STATION		DATE	
Instructions					
<ol style="list-style-type: none"> It is imperative that the chief of technical service concerned be advised at the earliest practical moment of any constructional, design, or operational defect in material. This form is designed to facilitate such reports and to provide a uniform method of submitting the required data. This form will be used for reporting manufacturing, design, or operational defects in material, petroleum fuels, lubricants, and preserving materials with a view to improving and correcting such defects, and for use in recommending modifications of material. This form will not be used for reporting failures, isolated material defects or malfunctions of material resulting from fair-weather-and-use or accidental damage nor for the replacement, repair or the loss of parts and equipment. It does not replace currently authorized operational or performance records. Reports of malfunctions and accidents involving ammunition will continue to be submitted as directed in the manner described in AR 750-10 (change No. 2). It will not be practicable or desirable in all cases to fill all blank spaces of the report. However, the report should be as complete as possible in order to expedite necessary corrective action. Additional pertinent information not provided for in the blank spaces should be submitted as inclosures to the form. Photographs, sketches, or other illustrative material are highly desirable. When cases arise where it is necessary to communicate with a chief of service in order to secure safety to personnel, more expeditious means of communication are authorized. This form should be used to confirm reports made by more expeditious means. This form will be made out in triplicate by using or service organization. Two copies will be forwarded direct to the technical service; one copy will be forwarded through command channels. Necessity for using this form will be determined by the using or service troops. 					
W. D., A. G. O. FORM NO. 608 28 August 1944			This form supersedes W. D., A. G. O. Form No. 608, 1 December 1943, which may be used until existing stocks are exhausted.		
U. S. GOVERNMENT PRINTING OFFICE 16-52549-1			TL19589C		

Figure 16. Facsimile of unsatisfactory equipment report.

APPENDIX

MAINTENANCE PARTS

I. Maintenance Parts for Screen PH-555/GF

The following information was compiled on 16 November 1945. The appropriate pamphlets of the ASF Signal Supply Catalog for Screen PH-555/GF are:

SIG 7 and SIG 8—PH-555/GF, organizational and higher echelon spare parts (when published).

For an index of available catalog pamphlets, see the latest issue of ASF Signal Supply Catalog SIG 2.

MAINTENANCE PARTS FOR SCREEN PH-555/GF

Reference • symbol (fig. No.)	Signal Corps stock No.	Name of part and description
2	8A740	SCREEN, projection: portable; folding. Complete with: sectional metal frame, metal mounting grommets, hooks, guys, stakes, and carrying cases. Semi-diffusing white projection surface. Screen dimensions: 7' 6" x 9' 11".
5	6Z012-13	CASE, screen: fiber, grey w/black trimmings; empty; for collapsible screen; 47" lg x 9¾" wd x 8½" h; (1 leather handle on each side and top; includes 5 webbed cloth straps riveted to case, two of the straps are 48" lg x 1" wd on the inside, three of the straps are 45" lg x 1½" wd on the outside; p/o Army-Navy Screen PH-555/GF). Radiant #CC-555. HOOK, steel: snap; cadmium plated; connects guide rope to frame of screen; 3⅛" lg x 1" wd x ⅞" h; ⅝" diam. mtg for guide rope; ⅝" snap; (p/o Army-Navy Screen PH-555/GF). Radiant #SP-266

MAINTENANCE PARTS FOR SCREEN PH-555/GF (contd).

Reference symbol (fig. No.)	Signal Corps stock No.	Name of part and description
14	6Z6001	HOOK, steel: "c" type; steel wire; #9 ga; zinc plated; aids in securing to screen frame by stretching coil springs; 5" lg x 1¼" wd x 1¼" thk overall; one end of hook has a closed loop 1" ID; p/o Army-Navy Screen PH-555/GF. Radiant #A44-1130.
13	6Z5084-1	HINGE, steel: zinc-plate finish; 7½" lg x ½" wd x ⅜" thk overall; (one non-removable rivet Radiant #B44-1107; one 5⅞" lg x ⅜" wd elongated hole for mtg rivet at one end; one clearance hole for ⅜" diam rivet at other end; rounded ends; p/o Army-Navy Screen PH-555/GF). Radiant #B-44-1107-1.
3	6Z7928	ROPE, sash cord: #8; ¼".
	6L4342-.6N	RIVET, tubular: steel; nickel plated; RH; ⅜" diam hd; ⅝" lg; used on hinge.
	6L4350-.5N	RIVET, tubular: steel; nickel plate finish; RH; ⅜" diam; ½" lg; used on hinge.
	6L4342-1-1C	RIVET, tubular: steel; zinc or cadmium pl w/ iridite or chromate treatment; RH; 0.116" diam hd; ⅜" lg; used on inter-lock spring.
	6L4342-1.1C	RIVET, solid: steel; zinc or cadmium pl w/ iridite or chromate treatment; RH; ⅜" diam; 1⅞" lg; used on hinge.
	8F7703	SCREEN, projection: portable; 7'6" x 9' 11" rubber fabric; solid reflecting surface; hooks to steel coil springs on frame by means of 40 grommets 1" diam x ⅞" ID, irregularly spaced on border of screen; front of screen white w/2½" wd black border, back of screen is black; p/o Army-Navy Screen PH-555/GF. Radiant #D44-1280-Fold-Pak.
14	8A3590-1	SPRING ASSEMBLY: tension; coil; steel wire #12 gauge; cadmium plate, baked; secures projection screen to steel frame; 32⅝" lg x 1⅞" OD; (one "C" clip Radiant #A44-1002-2; "C" clip has ⅝" opening spring tension mg to frame; initial tension approx 3 lb; p/o Army-Navy Screen PH-555/GF). Radiant #A44-1002.

MAINTENANCE PARTS FOR SCREEN PH-555/GF (contd).

Reference symbol (fig. No.)	Signal Corps stock No.	Name of part and description
12	8A3590	SPRING ASSEMBLY: interlock; flat; spring steel; cadmium plate, baked; interlocks steel frame segments; 5 $\frac{1}{4}$ " lg x $\frac{1}{2}$ " wd x $\frac{5}{8}$ " h; (one interlock spring pin Radiant #A44-1070; two 0.128" diam mtg holes $\frac{1}{32}$ " centers; p/o Army-Navy Screen PH-555/GF). Radiant #A45-1326.
3	2A3330-5	STAKE, guy: steel #14 gauge; zinc plated; angle shape 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 15" lg; tapered angle point; includes steel rod 2 $\frac{7}{8}$ " lg x $\frac{3}{8}$ " diam w/ $\frac{7}{16}$ " radius 1 $\frac{5}{16}$ " from top end to form a hook; rod held in place w/ wide ends of angle pressed together; p/o Army-Navy Screen PH-555/GF. Radiant #D-44-1188.
15	6Z8661-3	TIP, leg: hardwood; black lacquer; 1 $\frac{1}{2}$ " lg x 1 $\frac{1}{2}$ " diam; (one 0.136" diam mtg hole; wood free of knots and splits; p/o Army-Navy Screen PH-555/GF). Radiant #A43-0164.

SECTION B
BASIC ISSUE ITEMS
SCREEN PH-555/GF 8F7716-555

The following items comprise the basic issue equipment supplied for initial operation and for running spares in accordance with the authentic Procurement and Issue Control List.

SCREEN PH-555/GF PIC LIST		5 May 1945	
Nomenclature	Stock No.	Req'd	R/S Total
Screen Proj. 7'6" x 9'11"	EA 8F7703	1	1
Frame Assy Side	EA 8A1163-1	2	2
Frame Assy Horizontal	EA 8A1163-2	2	2
Frame Assy Center	EA 8A1164-1	1	1
Stake Guy Rope	EA 2A33305-5	8	8
Extension leg	EA 8A1013	2	2
Leg section	EA 8A2265	4	4

MAINTENANCE PARTS FOR SCREEN PH-555/GF (contd).

Reference symbol (fig. No.)	Signal Corps stock No.	Name of part and description			
		<i>Nomenclature</i>	<i>Stock No.</i>	<i>Req'd</i>	<i>R/S Total</i>
		Guy complete 10 ft lg	EA 2A1344-13	4	4
		Guy complete 22 ft lg	EA 2A1344-14	4	4
		Hook spring stretching	EA 6Z6001	2	2
		Case screen	EA 8A740	1	1

2. Maintenance Parts for Screen PH-556/GF

The following information was compiled on 31 October 1945. The appropriate sections of the ASF Signal Supply Catalog for Screen PH-556/GF are:

SIG 7 and SIG 8—PH-556/GF, organizational and higher echelon spare parts (when published).

For an index of available catalog pamphlets, see the latest issue of ASF Signal Supply Catalog SIG 2.

MAINTENANCE PARTS FOR SCREEN PH-556/GF

Reference symbol (fig. No.)	Signal Corps stock No.	Name of part and description
	8F7716-556	SCREEN, projection: portable; folding complete with sectional metal frame, metal mounting grommets, hooks, guys, stakes and carrying case semidiffusing white projection surfaces; screen dimensions: 10'11" high x 14'11" wide.
	8F885	CASE, screen: fiber; grey w/ black trimmings; empty; for collapsible screen; 10½" high x 12" wd x 48" lg; one leather handle on each end and top; Radiant #CC-556; includes 5 webbed cloth straps riveted to case; two of the straps are 48" lg x 1" wd on the inside; three of the straps are 45" lg x 1½" wd on the outside; p/o Army-Navy Screen PH-556/GF.

MAINTENANCE PARTS FOR SCREEN PH-556/GF (contd).

Reference symbol (fig. No.)	Signal Corps stock No.	Name of part and description
	6Z6012-13	HOOK; steel, snap: cadmium plated; connects guide rope to frame of screen; $3\frac{1}{8}$ " lg x 1" wd x $\frac{7}{8}$ " h; $\frac{5}{8}$ " diam mtg for guide rope; $\frac{5}{8}$ " snap; p/o Army-Navy Screen PH-555/GF. Radiant # SP-266.
	6Z6001	HOOK, steel: "C" type; steel wire; #9 ga; zinc plated; aids in securing to screen frame by stretching coil springs; 5" lg x $1\frac{1}{4}$ " wd x $1\frac{1}{4}$ " thk overall; one end of hook has a closed loop 1" ID; p/o Army-Navy Screen PH-555/GF. Radiant #A44-1130.
	6Z5084-1	HINGE, steel: zinc-plate finish; $7\frac{1}{2}$ " lg x $\frac{1}{2}$ " wd x $\frac{3}{8}$ " thk over all; (one non-removable rivet, Radiant #B44-1107; one $5\frac{5}{16}$ " lg x $\frac{3}{16}$ " wd elongated hole for mtg rivet at one end; one clearance hole for $\frac{1}{8}$ " diam rivet at other end; rounded ends; p/o Army-Navy Screen PH-555/GF).
	6Z7928	ROPE, sash cord: #8; $\frac{1}{4}$ ".
	6L4342-6N	RIVET, tubular, steel; nickel plated: RH; $\frac{1}{8}$ " diam hd; $\frac{5}{8}$ " lg; used on hinge.
	6L4350-5N	RIVET, tubular: steel; nickel plate finish: RH; $\frac{3}{16}$ " diam, $\frac{1}{2}$ " lg; used on hinge.
	6L4342-1-1C	RIVET, tubular: steel; zinc or cadmium pl w/ iridite or chromate treatment; RH; 0.116" diam hd; $\frac{3}{16}$ " lg; used on interlock spring.
	6L4342-1.1C	RIVET, solid: steel; zinc or cadmium pl w/ iridite or chromate treatment; RH; $\frac{1}{8}$ " diam; $1\frac{1}{8}$ " lg; used on hinge.
	8F7707	SCREEN, projection: portable; 10' 11" x 14' 5"; Rubber fabric; Radiant #E45-1324-Fold-Pak; solid reflecting surface; hook to steel coil springs on frame by means of grommets 1" diam x $\frac{7}{16}$ " ID, irregularly spaced on border, back of screen is black; p/o Army-Navy Screen PH-556/GF.

MAINTENANCE PARTS FOR SCREEN PH-556/GF (contd).

Reference symbol (fig. No.)	Signal Corps stock No.	Name of part and description
	8A8390-1	SPRING ASSEMBLY, tension: coil; steel wire #12 ga; cadmium plate, baked; secured projection screen to steel frame; 32 ³ / ₃₂ " lg x 1 ¹ / ₈ " OD; (one "C" clip Radiant #A44-1002-2; "C" clip has ⁵ / ₈ " opening tension mtg to frame; initial tension approx. 3 lb; p/o Army-Navy Screen PH-555/GF); Radiant #A44-1002.
	8A3590	SPRING ASSEMBLY, interlock: flat; spring steel; cadmium plate, baked; interlocks steel frame segments; 5 ¹ / ₆₄ " lg x 1 ¹ / ₂ " wd x ⁵ / ₈ " h; (one interlock spring pin, Radiant #A44-1070; two 0.128" diam mtg holes ¹⁷ / ₃₂ " centers; p/o Army-Navy Screen PH-555/GF); Radiant #A44-1326.
	2A3330-5	STAKE, guy: steel; #14 ga; zinc plated: angle shape 1 ¹ / ₂ " x 1 ¹ / ₂ " x 15" lg; tapered angle point; includes steel rod 2 ⁷ / ₈ " lg x ³ / ₈ " diam w/ ⁷ / ₁₆ " radius 1 ⁵ / ₁₆ " from top end to form a hook; rod held in place w/ wide ends of angle pressed together; p/o Army-Navy Screen PH-555/GF); Radiant #D44-1188.
	6Z8661-3	TIP, leg, hardwood; black lacquer; 1 ¹ / ₂ " lg x 1 ¹ / ₂ " diam; (one 0.136" diam mtg hole; wood free of knots and splits; p/o Army-Navy Screen PH-555/GF); Radiant #A43-0164.
SECTION B		
BASIC ISSUE ITEMS		
SCREEN PH-556/GF 8F7716-556		
The following items comprise the basic issue equipment supplied for initial operation and for running spares in accordance with the authentic Procurement and Issue Control List.		
SCREEN, PH-556/GF PIC LIST		
16 May 1945		
<i>Nomenclature.</i>	<i>Stock No.</i>	<i>Req'd R/S Total</i>
Screen Proj	EA 8F7707	1 1
10'11" x		
14'5"		

MAINTENANCE PARTS FOR SCREEN PH-555/GF (contd).

Reference symbol (fig. No.)	Signal Corps stock No.	Name of part and description			
		<i>Nomenclature</i>	<i>Stock No.</i>	<i>Req'd</i>	<i>R/S Total</i>
		Frame Assy Side	EA 8A1163-3	2	2
		Frame Assy Horiz 11 x 14 ft	EA 8A1160	2	2
		Frame Assy Center Vertcl	EA 8A1160-2	1	1
		Frame Assy Center Horiz	EA 8A1160-1	2	2
		Extension Leg	EA 8A1013	3	3
		Leg section	EA 8A2265	6	6
		Guy complete 10 ft lg	EA 2A1344-15	4	4
		Guy complete 22 ft lg	EA 2A1344-14	4	4
		Hook spring stretching	EA 6Z6001	2	2
		Case screen	EA 8F885	1	1
		Stake guy	EA 2A330-5	8	8

